

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/013727

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBL, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/113744 A1 (O' TOOLE MARGOT M ET AL) 19 June 2003 (2003-06-19) paragraphs '0265! - '0276!, '0281!; table 5	2
X	US 5 527 884 A (RUSSELL ET AL) 18 June 1996 (1996-06-18) column 18, lines 24-42	11
X	US 6 077 948 A (RUSSELL ET AL) 20 June 2000 (2000-06-20) column 20, line 56 - column 21, line 14 column 22, line 60 - column 23, line 25	5,11

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the International filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

29 March 2005

Date of mailing of the international search report

30.05.2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Leber, T

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/81916 A (BETH ISRAEL DEACONESS MEDICAL CENTER, INC; CORNELL RESEARCH FOUNDATION) 1 November 2001 (2001-11-01) page 8, lines 5-14 page 4, lines 1-8	3
P,X	FLECHNER STUART M ET AL: "Kidney transplant rejection and tissue injury by gene profiling of biopsies and peripheral blood lymphocytes." AMERICAN JOURNAL OF TRANSPLANTATION : OFFICIAL JOURNAL OF THE AMERICAN SOCIETY OF TRANSPLANTATION AND THE AMERICAN SOCIETY OF TRANSPLANT SURGEONS. SEP 2004, vol. 4, no. 9, September 2004 (2004-09), pages 1475-1489, XP002322115 ISSN: 1600-6135 table 3	5,11
A	CHRISTOPHER KENNETH ET AL: "The graft response to transplantation: A gene expression profile analysis." PHYSIOLOGICAL GENOMICS, vol. 15, 29 September 2003 (2003-09-29), pages 52-64, XP002322116 ISSN: 1094-8341	
A	MATSUI YUICHI ET AL: "Identification of gene expression profile in tolerizing murine cardiac allograft by costimulatory blockade." PHYSIOLOGICAL GENOMICS, vol. 15, 9 September 2003 (2003-09-09), pages 199-208, XP002322117 ISSN: 1094-8341	

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### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-15 (partially)

#### Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Inventions 1-9: claims 1-15(partly)

Methods for monitoring transplant rejection in a subject comprising measuring the level of mRNA or corresponding protein expression, methods of treating transplant rejection by administering a compound and the use of an expression product as transplant rejection biomarker, whereby the a said methods and use relate to the 1./2./3. . . /9. entry of Table 1.

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Inventions 10-19: claims 1-15(partly)

Methods for monitoring transplant rejection in a subject comprising measuring the level of mRNA or corresponding protein expression, methods of treating transplant rejection by administering a compound and the use of an expression product as transplant rejection biomarker, whereby the a said methods and use relate to the 1-10 entry of Table 2.

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Invention 20: claims 1-15(partly)

Methods for monitoring transplant rejection in a subject comprising measuring the level of mRNA or corresponding protein expression, methods of treating transplant rejection by administering a compound and the use of an expression product as transplant rejection biomarker, whereby the a said methods and use relate to the 1. and only entry of Table 3.

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP2004/013727

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 2003113744	A1	19-06-2003	WO	02092124 A1		21-11-2002
US 5527884	A	18-06-1996	AU CA EP JP WO US	1441895 A 2178735 A1 0749476 A1 9506778 T 9517506 A1 6077948 A		10-07-1995 29-06-1995 27-12-1996 08-07-1997 29-06-1995 20-06-2000
US 6077948	A	20-06-2000	US AU CA EP JP WO	5527884 A 1441895 A 2178735 A1 0749476 A1 9506778 T 9517506 A1		18-06-1996 10-07-1995 29-06-1995 27-12-1996 08-07-1997 29-06-1995
WO 0181916	A	01-11-2001	US AU WO US	2003104371 A1 5716101 A 0181916 A2 2002132235 A1		05-06-2003 07-11-2001 01-11-2001 19-09-2002